re-code your DNA

Come unlock the mysteries of life with the School of Life Sciences & Chemical Technology where an exciting journey into a fascinating world awaits you.

6 BIOMEDICAL SCIENCE N59
10 MOLECULAR BIOTECHNOLOGY N49
13 PHARMACY SCIENCE N73
16 VETERINARY BIOSCIENCE N90
20 LANDSCAPE DESIGN & HORTICULTURE N57
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26 ENVIRONMENTAL & WATER TECHNOLOGY N74

SCHOOL OF LIFE SCIENCES & CHEMICAL TECHNOLOGY
Looking for a school that offers a robust education in life sciences and chemical technology? Here are six reasons why Ngee Ann Polytechnic’s School of Life Sciences & Chemical Technology (LSCT) is one of the most reputable institutions in Singapore.

### Life Sciences

**Diploma in Biomedical Science**
- An established and recognised biomedical science programme
- Specialisation options in Biomedical Research, Clinical Laboratory Technology and Medicinal Chemistry
- Final-year projects and internships with renowned research institutions and organisations

**Diploma in Molecular Biotechnology**
- Widen your career choices with the Biopharmaceutical or Forensic Science specialisation options
- Choose from exciting electives in Aquaculture & Marine Biology, Food Science and Plant Biotechnology

**Diploma in Pharmacy Science**
- Exclusive one-year Integrated Pharmacy Training Programme with NUH’s Pharmacy Department
- Broad-based training in pharmacy practice and pharmaceutical sciences

**Diploma in Veterinary Bioscience**
- Unique course that combines bioscience and veterinary science
- Learn how to care for, handle and manage animals

### Chemical & Environmental Technology

**Diploma in Chemical & Biomolecular Engineering**
- Pharma & Biopharmaceutical specialisation option opens doors to careers in a fast-growing industry
- Internship opportunities at internationally recognised companies or research facilities

**Diploma in Environmental & Water Technology**
- Widen your career choices with two additional WSQ certificates
- Study a module at an overseas eco-city
- Supported by the National Environment Agency (NEA) and PUB (Singapore’s National Water Agency)

### Horticulture & Landscape

**Diploma in Landscape Design & Horticulture**
- Distinctive course that combines landscape design with plant science and horticulture
- Strong partnership with National Parks Board

**Diploma in Landscape Design**
- Widen your career choices with two additional WSQ certificates
- Study a module at an overseas eco-city

**Diploma in Horticulture**
- Distinctive course that combines landscape design with plant science and horticulture
- Strong partnership with National Parks Board

### The edge in R&D

Besides having one of the most extensive polytechnic research programmes in Singapore, we are also known for our expertise in areas such as biocatalysts, aquatic science, sky-rise greening, molecular diagnostics and cancer biology. Providing practical hands-on training is also an important aspect of your experience at NP, where you will get to work on research projects while being guided by our faculty.

### A proven track record

Our graduates have completed their degrees at top universities around the world and seven have been accepted into the National University of Singapore’s Yong Loo Lin School of Medicine. Some have even clinched prestigious PSC and A*STAR scholarships.

### Top lecturers

All of our lecturers hold postgraduate qualifications, and are well equipped with rich research and industry experience.

### More options

You can pursue a wide range of degrees and careers with our broad-based curriculum and specialization options.

### Unique partnerships

Our strong industry partnerships with organisations such as National University Hospital, National Parks Board and PUB (Singapore’s National Water Agency) enable you to apply what you have learnt in the classroom to a real-world setting.

### Global exposure

You will gain a global perspective by participating in various overseas internships and immersion programmes to places such as Boston, London, Dublin, Brisbane and Seoul.
Our graduates with that something XTRA

From Poly to NUS Medical School
Since 2007, seven NP graduates have made it to the National University of Singapore’s medical school.

"I have always been fascinated by how the brain forms memories and how we feel emotions through these neuronal connections. Infectious diseases is also an interesting topic because I learnt how bacteria are able to manipulate our immune system to cause disease."

Nicole Choi
Diploma in Biomedical Science, Class of 2015
Nicole is the seventh LSCT graduate to be accepted into the NUS Yong Loo Lin School of Medicine.

Environmental Champions

"I hope to continue to work on outreach projects to inspire youths to be more aware of environmental issues."

Tan Sok Hian
Diploma in Environmental & Water Technology, Class of 2015
Sok Hian received the PUB Diploma Scholarship while studying at NP. She also won the HSBC/NYAA Youth Environmental Award for her contributions to environmental protection. Sok Hian is currently pursuing a degree in Civil Engineering at Imperial College London on a National Environmental & Water Scholarship.

"The LDH course has opened many doors for me to apply the knowledge and skills that I have learnt to real world situations."

Justin Tan
Diploma in Landscape Design & Horticulture, Class of 2015
Justin is a recipient of the HSBC/NYAA Youth Environmental Award, which recognises youths for their contributions to nature conservation. He won a coveted nine-day study trip to a national park in Maine, United States, where he helped scientists combat climate change.

"At Ngee Ann, I discovered in myself a whole new dimension and it set the stage for me to clinch the coveted PSC scholarship."

Leow Yi Ning
Diploma in Chemical & Biomolecular Engineering, Class of 2011
Yi Ning was the first polytechnic graduate to receive the A*STAR National Science Scholarship to study neuroscience at University College London. She is currently pursuing a PhD in Brain & Cognitive Sciences at the Massachusetts Institute of Technology.

"My experience in NP’s Biomedical Science course was enriching for its broad coverage from molecular biology to human physiology. I would like to credit my foray into research to the lecturers who care for students both in and out of the classroom."

Alexander Mok
Diploma in Biomedical Science, Class of 2008
Alexander is a recipient of the National Science Scholarship. He is currently pursuing a PhD in Epidemiology at the University of Cambridge.

"My interned at the University of Liverpool, where I studied scent secretions from hamsters. I aspire to become a research veterinarian and work with animal models to develop new drugs and vaccines, and uphold the high standards of animal welfare."

Kristine Tan
Diploma in Veterinary Bioscience, Class of 2014
Kristine received an A*STAR scholarship to pursue Veterinary Medicine at the University of Glasgow, followed by a Doctorate in animal research.

"Ngee Ann has helped me establish the fundamental foundations of being a successful scientist and to achieve my childhood dream of working in the field of space biology."

Natasha Sng
Diploma in Biotechnology (now renamed as Diploma in Molecular Biotechnology), Class of 2005
Natasha is pursuing her PhD in Plant Molecular and Cell Biology at the University of Florida. Her research explores the possibility of growing plants in space.

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DIPLOMA IN BIOMEDICAL SCIENCE

- An established and recognised biomedical science programme
- Final-year projects and internships with renowned research institutions and organisations
- Choice of three specialisation options: Biomedical Research, Clinical Laboratory Technology and Medicinal Chemistry

WHAT THE COURSE IS ABOUT

From cancer screening to diagnosing HIV, drug discovery and development, biomedical science is the foundation of modern healthcare today. Get an understanding of how diseases evolve, the functions of the human body and the world of bacteria through the Diploma in Biomedical Science (BMS).

The course covers the latest in biomedical sciences and medical breakthroughs, including areas such as cancer biology, infectious diseases, clinical chemistry, developmental biology and immunology.

In your first year, you will take modules such as chemistry, microbiology, biostatistics, physiology and cell biology that will give you a firm foundation in biomedical science. You can build upon this solid foundation and choose one of our three specialisation options in your second year.

SPECIALISATION OPTIONS

Biomedical Research
Develop research skills needed to understand how diseases arise and are treated. You will learn various aspects of biomedical science including cell culture and its applications, developmental biology & genetics as well as immunology. This option includes a four-month local or overseas internship at research institutes, university research laboratories and healthcare industries.

Clinical Laboratory Technology
This option includes a two-year Integrated Clinical Laboratory Training Programme at NUH at the start of the second year, where you will learn about laboratory techniques and get trained alongside doctors, nurses and medical technologists. You will also receive additional certification in phlebotomy.

Medicinal Chemistry
Work with experts from the pharmaceutical industry, hospitals and research institutes to hone your understanding of diseases, as well as the design and discovery of new drugs. This option includes a four-month local or overseas internship at pharmaceutical companies, research institutes and university research laboratories.
### WHAT YOU WILL LEARN

#### MEDICINAL CHEMISTRY SPECIALISATION OPTION

- Critical Thinking and Communication
- Innovation Toolkit
- Sports & Wellness

At the end of Year 1, you will select one of the three specialisation options:
- Biomedical Research
- Clinical Laboratory Technology
- Medicinal Chemistry

#### CLINICAL LABORATORY TECHNOLOGY SPECIALISATION OPTION

[Conducted in collaboration with NHG. Students will receive additional certification in phlebotomy.]

- Clinical Chemistry 1
- Clinical Haematology 1
- Clinical Microbiology 1
- Advanced Topics in Biomedical Science
- Applied Biostatistics
- Lab Techniques in Clinical Chemistry 1
- Lab Techniques in Clinical Chemistry 2
- Lab Techniques in Clinical Haematology
- Lab Techniques in Clinical Microbiology

#### BIOMEDICAL RESEARCH SPECIALISATION OPTION

- Genomics & Proteomics
- Life Sciences Seminar Series
- Any two elective modules: Forensic Science, Translational Medicine, Molecular Medicine, Internship, Research Project, World Issues: A Singapore Perspective
- Any one IS elective

#### MEDICINAL CHEMISTRY SPECIALISATION OPTION

- Drug Discovery
- Genomics & Proteomics
- Any two elective modules: Chemistry of Natural Products, Forensic Chemistry, Forensic Science, Internship, Research Project, World Issues: A Singapore Perspective
- Any one IS elective

#### YEAR 2

- Any two IS electives
- Career & Professional Preparation II
- Toxicology & Pharmacology
- Structural Chemistry
- Molecular Biology
- Career & Professional Preparation I

#### YEAR 1

- Biostatistics
- Cell Biology
- Inorganic & Physical Chemistry
- Introduction to Medical Science
- Mathematics
- Microbiology
- Organic Chemistry
- Physiology
- Career & Professional Preparation I

### CAREER

Start your career as a research assistant, medical technologist, laboratory biologist or laboratory analyst before moving on to senior positions in research, biomedical science, healthcare, forensic, pharmaceutical, drug design and discovery, clinical trials and clinical labs.

### FURTHER STUDIES

BMS graduates are able to pursue a wide range of degree programmes such as biological science, medicine, dentistry, chemistry, laboratory medicine, medical technology, bioengineering, education, architecture, business, business administration, psychology, environmental studies and social science.

In fact, about 60 per cent of our graduates enrol into the National University of Singapore, Nanyang Technological University and Singapore Management University every year. Top overseas universities also welcome our graduates with exemptions of up to two years. They include:

- Queensland University of Technology (Australia)
- RMIT University (Australia)
- University of Melbourne (Australia)
- University of New South Wales (Australia)
- University of Queensland (Australia)
- Imperial College London (UK)
- University of Leicester (UK)
- University of Liverpool (UK)
- University of Manchester (UK)
- University of Dundee (UK)
- Queen’s University Belfast (UK)
- Queen’s University Belfast (US)
- Cornell University (US)
- McGill University (Canada)

### ENTRY REQUIREMENTS

**AGGREGATE TYPE ELR2B2-C**

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

### CONTACT US

For the most up-to-date information on NP’s Diploma in Biomedical Science, log on to www.np.edu.sg/bms

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* "I worked on a cancer research project during my internship at Queen’s University Belfast. Besides attending lectures and conferences there, I even had the chance to learn about the human anatomy in a cadaver lab!*

Lee Yan Ying
Third-year BMS student who is specialising in Medicinal Chemistry
DIPLOMA IN MOLECULAR BIOTECHNOLOGY

• Get a strong foundation in applied biology and molecular biosciences
• Local and overseas internships with research institutes, life science companies and the R&D laboratories of universities
• Take the exciting Biopharmaceutical or Forensic Science specialisation option in your final year
• Attractive electives in Aquaculture & Marine Biology, Food Science and Plant Biotechnology

WHAT THE COURSE IS ABOUT

If you want to know how living systems and organisms can be used to improve our quality of life, the Diploma in Molecular Biotechnology (MBIO) may just be the course for you. Molecular Biotechnology is a growing field of science that combines applications from biochemistry, immunology, genetics and microbiology.

It can offer innovative solutions to tackle global problems ranging from human and animal health to agriculture and sustainable energy production. MBIO equips you with a strong foundation in the biosciences. In your first year, you will study a number of basic science subjects including chemistry, cell biology and microbiology before proceeding onto more advanced subjects such as biochemistry, cell culture technology, genomics and proteomics.

In your final year, you will undertake research projects and internship at R&D laboratories in local and overseas universities, research institutes and life science companies. In addition, you will have the choice of deepening your knowledge with one of two exciting specialisation options.

SPECIALISATION OPTIONS

Biopharmaceutical
This option focuses on the discovery, development and manufacturing of biopharmaceuticals, which are medicinal products manufactured in or extracted from biological sources.

Forensic Science
In this option, learn about the forensic and DNA techniques used by criminal investigators and forensic scientists.

WHAT YOU WILL LEARN

YEAR 1
• Biostatistics
• Cell Biology
• Inorganic & Physical Chemistry
• Introduction to Medical Science
• Mathematics
• Microbiology
• Organic Chemistry
• Physiology
• Career & Professional Preparation I
• Innovation Toolkit
• Sports & Wellness
• Critical Thinking & Communication

YEAR 2
• Applied Biostatistics
• Applied Microbiology
• Biochemistry
• Bioinformatics
• Cell Culture & Bioprocess Engineering
• Immunology
• Instrumentation & Analytical Chemistry
• Molecular Biology
• Any one elective module:
  • Aquaculture & Marine Biology
  • Food Science
  • Plant Biotechnology
• Career & Professional Preparation II
• Any two IS electives

YEAR 3
• Genomics & Proteomics
• Life Sciences Seminar Series
• Research Project
• Internship
• World Issues: A Singapore Perspective
• Any one IS elective
• Choose one of the two specialisation options:
  Forensic Science Specialisation Option
  • Forensic Science
  • Forensic Chemistry
  Biopharmaceutical Specialisation Option
  • Drug Discovery & Development
  • Biomanufacturing Practices

* Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.
MBIO graduates have been successful in a range of careers including marine biology, aquaculture, agrotechnology, education, healthcare, pharmaceutical and biologics manufacturing, food technology and forensic science. You can become a research assistant, laboratory biologist, technical specialist, scientific product executive, laboratory support officer or project executive.

FURTHER STUDIES

MBIO graduates can pursue a wide range of degree programmes such as biological science, medicine, chemistry, materials engineering, bioengineering, architecture, dentistry, law and business. Each year, a large proportion of our graduates enrol into National University of Singapore, Nanyang Technological University and Singapore Management University. So far, more than 200 of our graduates have completed PhDs at local and overseas universities.

Top overseas universities welcome our graduates with exemptions of up to two years. They include:

- Australian National University (Australia)
- Monash University (Australia)
- University of Melbourne (Australia)
- University of Queensland (Australia)
- University of Western Australia (Australia)
- Imperial College London (UK)
- University College London (UK)
- University of Manchester (UK)
- University of Dundee (UK)
- Queen’s University Belfast (UK)
- Cornell University (US)
- Michigan State University (US)

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You must also fulfill the aggregate computation requirements.

- Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

For the most up-to-date information on NP’s Diploma in Molecular Biotechnology, log on to www.np.edu.sg/mbio

"I was exposed to a wide variety of disciplines and niche subjects through interesting electives such as Plant Biotechnology and Drug Discovery & Development. Thanks to my knowledgeable lecturers who were always ready to help me, I had a very memorable and exciting learning journey!"

Tan Qiao Wen
Diploma in Molecular Biotechnology, Class of 2015
Qiao Wen was awarded the A*STAR Undergraduate Scholarship to pursue her degree in Biological Sciences at NTU.

DIPLOMA IN PHARMACY SCIENCE

- Exclusive one-year Integrated Pharmacy Training Programme with the National University Hospital’s Pharmacy Department and train under practising pharmacists and doctors
- Broad-based training in pharmacy practice and pharmaceutical sciences will open doors to more career options
- Choice of three final-year electives: Complementary Medicine & Traditional Chinese Medicine, Nutrition & Dietetic Science or Cosmetic & Perfumery Science
WHAT THE COURSE IS ABOUT

Find out what it is like to work at the forefront of drug therapy and get hands-on experience in managing pharmacies through the Diploma in Pharmacy Science (PHARM). This course will equip you with a foundation in biological, chemical and pharmaceutical sciences, and cover topics such as clinical trials, pharmaceutical operations, drug manufacturing and pharmacology.

In your final year, you will undertake a one-year Integrated Pharmacy Training Programme at the Pharmacy Department of National University Hospital (NUH). This will include attachments with pharmacies in NUH’s Cancer Centre and Satellite Wards, as well as the hospital’s Clinical Trials Unit and Aseptic Dispensing and Compounding Laboratory – all designed to allow you to engage and learn directly from practising doctors and pharmacists.

In addition, you will take up a research project at NUH and choose one of the following three electives in your final year:

- The Nutrition & Dietetic Science elective provides you with a basic understanding of nutritional and dietetic concepts, including the study of nutrients in the diet and their effects on health.
- The Cosmetic & Perfumery Science elective introduces students to the science and regulatory control behind the development of cosmetic products and fragrances.
- The Complementary Medicine & Traditional Chinese Medicine elective, you will learn to evaluate the evidence behind alternative therapies and traditional Chinese medicines.

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The Cosmetic & Perfumery Science elective introduces students to the science and regulatory control behind the development of cosmetic products and fragrances.

WHAT YOU WILL LEARN

YEAR 1
- Anatomy & Physiology
- Biostatistics
- Cell & Molecular Biology
- Inorganic & Physical Chemistry
- Introduction to Pharmacy
- Mathematics
- Organic & Biological Chemistry
- Career & Professional Preparation I
- Innovation Toolkit^v
- Sports & Wellness^v
- Critical Thinking and Communication^v

YEAR 2
- Applied Biostatistics
- Clinical Biochemistry
- Clinical Immunology
- Current Good Manufacturing Practice
- Medicinal Chemistry & Drug Discovery
- Microbiology & Infectious Diseases
- Pathology
- Pharmaceutical Analysis
- Pharmaceutics
- Pharmacology
- Career & Professional Preparation II
- Any two IS electives^v

YEAR 3
- Aseptic Dispensing & Compounding
- Clinical Pharmacy
- Good Dispensing Skills
- Pharmacy Management & Logistics
- Pharmacy Practice
- Pharmacotherapeutics
- Research Project
- World Issues: A Singapore Perspective^v
- Any one IS elective^v

Choose one elective module:
- Complementary Medicine & Traditional Chinese Medicine
- Nutrition & Dietetic Science
- Cosmetic & Perfumery Science

* Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.

CAREER

As a qualified pharmacy technician, you will be in high demand upon graduation. Your hands-on training with NUH will ensure that you are ready for careers in healthcare services and clinical research. What’s more, you can become a regulatory executive or even an entrepreneur of healthcare products and services. You can also work with clinical research organisations and pharmaceutical companies such as Baxter and GlaxoSmithKline.

FURTHER STUDIES

You will be able to pursue degrees in pharmacy, pharmaceutical science, chemistry, life science, biological science, biomedical science, medicine and dentistry as well as other healthcare-related courses at universities both locally and overseas. PHARM graduates are also eligible to pursue a wide range of other degrees offered by National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design. They include education, arts, architecture, business, psychology and social science.

You may be granted up to two years of exemptions when applying for related degree programmes at the following universities:
- Monash University (Australia)
- RMIT University (Australia)
- University of Melbourne (Australia)
- University of Queensland (Australia)
- University of Sydney (Australia)
- University of Otago (New Zealand)
- University of London (UK)
- University of Dundee (UK)

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Candidates with colour vision deficiency should not apply for the course.

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"The enriching and practical one-year Integrated Pharmacy Training Programme at NUH equipped me with both the technical and soft skills required to be a Pharmacy Technician. I was even offered a job before graduation!"

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Diploma in Pharmacy Science, Class of 2015
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DIPLOMA IN VETERINARY BIOSCIENCE

- A course that combines bioscience and veterinary science to offer wider career options
- Strong focus on the proper care, handling and management of laboratory animals for scientific purposes
- Training that prepares you to assist veterinarians in providing animal medical care and treatment
- Four-month internship with top local or overseas research institutions, life science companies, animal theme parks and veterinary clinics

WHAT THE COURSE IS ABOUT

Love animals and interested in their welfare? The Diploma in Veterinary Bioscience (VBS) will teach you how to care for, handle and manage various animals, ranging from laboratory animals to pets.

You will be trained to assist veterinarians in a clinical setting, as well as learn about the importance of animal models in the search for new drugs and vaccines. This course also gives you a head start in a career in biomedical research.

In your first year, you will learn about the maintenance and wellbeing of animals through modules such as Animal Anatomy & Physiology, Animal Nutrition and Animal Welfare, Behaviour & Handling. Modules such as Wildlife Conservation & Biodiversity will give you an understanding of animals in their natural habitats.

You will learn about the importance of the animal immune system in the prevention of infection, as well as the clinical diagnosis and treatment of animal diseases in your second year. The role of genes in animal health will be covered through modules such as Animal Developmental Biology & Genetics.

In your final year, you will carry out a research project and undertake a four-month internship either locally or abroad, where you could be attached to research laboratories, veterinary clinics or animal theme parks such as the Singapore Zoo.
WHAT YOU WILL LEARN

YEAR 1
- Animal Anatomy & Physiology
- Animal Nutrition
- Animal Welfare, Behaviour & Handling
- Biostatistics
- Cell Biology
- Inorganic & Physical Chemistry
- Organic & Biological Chemistry
- Veterinary Microbiology
- Wildlife Conservation & Biodiversity
- Career & Professional Preparation I
- Critical Thinking & Communication
- Innovation Toolkit
- Sports & Wellness

YEAR 2
- Animal Developmental Biology & Genetics
- Animal Diseases & Pathology
- Applied Biostatistics
- Aquaculture & Fish Diseases
- Cell Culture & Tissue Applications
- Clinical Biochemistry & Haematology
- Clinical Diagnostics, Surgical & Veterinary Practices
- Molecular Biology & Bioinformatics
- Veterinary Immunology
- Veterinary Pharmacology & Toxicology
- Career & Professional Preparation II
- Any two IS electives

YEAR 3
- Animal Genomics & Proteomics
- Animal Husbandry & Breeding
- Preclinical & Clinical Trials
- Research Project
- Internship
- World Issues: A Singapore Perspective
- Any one IS elective

CAREER

VBS graduates enjoy a wide range of careers in the veterinary and biomedical science industries upon graduation. You can become a laboratory biologist in a research institution or university laboratory, or a veterinary bioscientist in an animal research facility or preclinical trial centre. Alternatively, you may choose to be a veterinary assistant in a veterinary clinic or animal hospital. With further education, you can even become a veterinarian!

You can also find job opportunities in animal theme parks (such as the Singapore Zoo, Night Safari, River Safari, Jurong Bird Park and Marine Life Park), equine establishments (such as the Bukit Timah Saddle Club), animal-related businesses (such as pet care companies), the government sector and animal welfare organisations such as the SPCA.

FURTHER STUDIES

You can pursue a wide range of degrees including biological science and biomedical science in local and overseas universities. These degrees will offer you career advancement in the area of life sciences.

If you want to become a veterinarian, you can enrol into veterinary medicine programmes offered by universities in Australia, New Zealand, and the UK. Other related areas include degrees in Animal Science, Zoology and Marine Biology from overseas universities. Murdoch University (Australia) and the University of Sydney (Australia) both offer our graduates a one-year exemption from their Bachelor of Veterinary Medicine & Surgery programme and Bachelor of Veterinary Biology & Doctor of Veterinary Medicine programme, respectively.

Ross University School of Veterinary Medicine (St Kitts) offers our graduates direct entry into their accelerated Doctor of Veterinary Medicine programme.

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-C

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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<tr>
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</table>

You must also fulfill the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

For the most up-to-date information on NP’s Diploma in Veterinary Bioscience, log on to www.np.edu.sg/vbs

"The Veterinary Bioscience course provides a comprehensive approach to learning as it consists of an excellent blend of theory and practical sessions. It has definitely given me valuable insights into my future career as a veterinarian."

Goh Han Lei
Diploma in Veterinary Bioscience, Class of 2014

Han Lei will be pursuing a Bachelor’s degree in Veterinary Medicine & Surgery at the University of Edinburgh.

“I did an overseas internship at the University of Glasgow’s School of Veterinary Medicine, where I studied the risk-taking behaviour in adolescent sheep. I accompanied the vet on farm visits and even assisted in a surgical procedure on a cow!”

T Divya
Diploma in Veterinary Bioscience, Class of 2015

Divya will be pursuing a Bachelor’s degree in Veterinary Medicine & Surgery at the University of Glasgow.
DIPLOMA IN LANDSCAPE DESIGN & HORTICULTURE

- The only polytechnic diploma that combines broad-based training in landscape design with plant science and horticulture
- Strong partnership with National Parks Board to offer practical outdoor lessons at Botanic Gardens and Learning Park@Clementi Woods

WHAT THE COURSE IS ABOUT

If you have a love for nature and a flair for design, join the Diploma in Landscape Design & Horticulture (LDH) and play a part in developing Singapore as a City in a Garden. Combining landscape design, plant science and horticulture management, LDH is the only diploma-level course of its kind in Singapore.

Thanks to our strong partnership with National Parks Board, much of your practical training, field training and outdoor lessons will take place at the Singapore Botanic Gardens and other parks.

In your first year, you will develop skills in landscape design and learn about urban ecology and conservation, as well as plant taxonomy. You will progress on to learn about horticulture and turf management, genetics and breeding of plants, and hardscape and softscape designs in your second year. In your final year, you will undertake a project and get to apply your horticulture and plant science knowledge to develop innovative landscape designs.

In addition, this course will provide you with the opportunity to hone your horticultural and project management skills at the Learning Park@Clementi Woods and Singapore Botanic Gardens. You will be able to conduct hands-on practice and attend classes at The Greenhub, a dedicated classroom set in the midst of Clementi Woods.

WHAT YOU WILL LEARN

YEAR 1
- CAD & Graphic Applications
- Chemistry
- Floristry & Interiorsapes
- Landscape Design Communication 1
- Landscape Studio 1 - Design Fundamentals
- Plant Anatomy & Morphology
- Soil Science & Plant Nutrition
- Taxonomy & Plant Identification
- Urban Ecology & Conservation
- Career & Professional Preparation I
- Innovation Toolkit^
- Sports & Wellness^
- Communication and Contemporary Issues^

YEAR 2
- Arboriculture
- Genetics & Plant Breeding
- Hardscape Design
- Horticulture & Turf Management
- Landscape Design Communication 2
- Landscape Studio 2 - Design Process
- Plant Biochemistry & Physiology
- Plant Identification 2
- Plant Pathology & Entomology
- Propagation & Nursery Management
- Softscape Design
- Career & Professional Preparation II
- Any two IS electives^

YEAR 3
- Landscape Project Management
- Landscape Studio - Independent Projects
- Leisure & Park Management
- Urban Horticulture Technology
- Internship
- Project (Choose one)
  - Landscape Design Track
  - Horticultural Research Track
- World Issues: A Singapore Perspective^
- Any one IS elective^

^ Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.
You can put your green fingers to work at the two integrated resorts, three waterfront gardens at Marina Bay, country clubs, hotels and property developments across Singapore. LDH graduates can also find employment as horticulturists, landscape designers or nursery supervisors.

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-D
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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You must have also sat for a Science or Art / Higher Art or Design & Technology or Food & Nutrition or a relevant OSIE / Applied Subject and fulfilled the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

For the most up-to-date information on NP’s Diploma in Landscape Design & Horticulture, log on to www.np.edu.sg/ldh

“I have gained valuable work experience and developed important interpersonal skills during my internship at National Parks Board. This internship allowed me to discover my interests and provided me with a clearer direction in terms of my future studies and career choices.”

Seah Shi Yong
Third-year LDH student who interned at the Horticulture & Community Gardening Division at National Parks Board.

DIPLOMA IN CHEMICAL & BIOMOLECULAR ENGINEERING

- Versatile curriculum that combines biological & chemical sciences with chemical engineering
- Accredited by the Institution of Chemical Engineers (UK)
- Research track for students interested in a research-based career
- Internship opportunities at reputable companies such as ExxonMobil, Shell, GlaxoSmithKline and Roche
- Pharma & Biopharmaceutical specialisation option opens up more career opportunities
WHAT YOU WILL LEARN

**YEAR 1**
- Biomedical Science
- Electrotechnology
- Engineering Drawing & Computer Applications
- Engineering Mathematics 1 & 2
- Introduction to Chemical & Biochemical Engineering
- Inorganic & Physical Chemistry
- Organic & Biological Chemistry
- Thermodynamics
- Career & Professional Preparation I
- Innovation Toolkit
- Sports & Wellness
- Critical Thinking and Communication

**YEAR 2**
- Analysis of Chemical Engineering Processes
- Analytical Chemistry
- Biopharmaceutical Production
- Chemical Engineering Laboratory 1 & 2
- Engineering Materials
- Engineering Mathematics 3
- Environmental Technology
- Occupational Health & Safety
- Reaction Engineering
- Transfer Processes: Fluid Flow
- Transfer Processes: Heat & Mass
- Career & Professional Preparation II
- Any two IS electives

**YEAR 3 Semester 1**
General Chemical Engineering Specialisation Option
- Chemical Engineering Laboratory 3
- Industrial Chemical Processes
- Petrochemical Technology
- Process Control & Instrumentation
- Process Engineering Design
- Unit Operations
- World Issues: A Singapore Perspective
- Any one IS elective

Pharma & Biopharmaceutical Specialisation Option
- Biopharmaceutical Quality Control
- Current Good Manufacturing Processes
- Pharmaceutical Engineering Laboratory
- Process Control & Instrumentation
- Process Engineering Design
- Unit Operations for Pharmaceutical Processes
- World Issues: A Singapore Perspective
- Any one IS elective

**YEAR 3 Semester 2**
Industry Track
- Industry Internship

Research Track
- Research Internship

*Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.*

WHAT THE COURSE IS ABOUT

As the only course in Singapore that integrates biological and chemical sciences with engineering concepts, the Diploma in Chemical & Biomolecular Engineering (CBE) offers a broad-based curriculum, covering chemical processing, pharmaceuticals, environment science, engineering and life sciences.

In your first year, you will be introduced to concepts from organic, biological, inorganic and physical chemistry, chemical and biochemical engineering, electrotechnology and biomolecular science. Second-year modules offer an in-depth study of biopharmaceutical technology, chemical engineering processes, analytical chemistry, engineering materials and reaction engineering.

In the final year, students can choose either the General Chemical Engineering Specialisation Option or the Pharma & Biopharmaceutical Specialisation Option. Both options cover modules on process engineering design, process instrumentation and control as well as unit operations. Hands-on training is strongly featured throughout the entire curriculum.

Students can opt for either the Industry Track that consists of an internship with companies such as Chevron Onorite, ExxonMobil, Shell Petrochemicals, GlaxoSmithKline, or the Research Track that consists of an internship in local/overseas research facilities.

FURTHER STUDIES

CBE graduates can pursue a wide range of degrees offered by National University of Singapore, Nanyang Technological University, Singapore Management University and Singapore University of Technology and Design. These include degree courses in chemical and biomolecular engineering, chemical engineering, environmental engineering, material sciences, chemistry, physics and biological sciences.

You can obtain up to two years of exemption when you apply for related degree programmes at the following overseas universities:

- University of Adelaide (Australia)
- University of Melbourne (Australia)
- University of New South Wales (Australia)
- University of Queensland (Australia)
- University of Western Australia (Australia)
- Imperial College (UK)
- Loughborough University (UK)
- Newcastle University (UK)
- University of Birmingham (UK)
- University of Manchester (UK)

Entry for graduates will depend on their performance in the degree course. Additional modules will be conducted in the second year of the degree course to meet the entry requirements of the university.

In addition, you have the option of applying for a degree in Chemical Engineering at the Singapore Institute of Technology. Offered in partnership with University of Newcastle (UK), this two-year direct honours programme is subsidised and will be conducted on NP’s campus.

CAREER

With strong growth in the chemical and biomedical sectors, your skills and knowledge will be in high demand. The CBE course provides you with the foundation and flexibility to enter various industries, ranging from chemical, petrochemical, biochemical, biotechnology, biomedical and pharmaceutical sciences to food & beverage, electronics and environment-related industries. CBE graduates enjoy good employment prospects as technologists, lab analysts, project supervisors, assistant engineers and pollution control or plant safety officers.

ENTRY REQUIREMENTS

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You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

For the most up-to-date information on NP’s Diploma in Chemical & Biomolecular Engineering, log on to [www.np.edu.sg/cbe](http://www.np.edu.sg/cbe)

"During my final year, I was given the opportunity to do an overseas research internship at the prestigious Imperial College London. I was able to apply the knowledge that I had gained from the well-structured CBE curriculum to my research project."

Shiek Abdullah Abdul Arshath
Third-year CBE student
DIPLOMA IN ENVIRONMENTAL & WATER TECHNOLOGY

• The only established course in environmental science and technology, supported by PUB and NEA
• Work with scientists and engineers on exciting industry-based projects at our Centre of Innovation in Environmental & Water Technology
• Apply for a bond-free PUB Scholarship or a BCA Built Environment Scholarship that comes with a job offer upon graduation
• Participate in an enhanced study trip to an overseas eco-city

WHAT THE COURSE IS ABOUT

With a growing world population and climate change, the pressure on water supplies is set to increase. If you want to play a role in addressing the environmental challenges facing the world today, then the Diploma in Environmental & Water Technology (EWT) is the course for you.

Jointly developed with the PUB, this diploma will equip you with a firm grounding in the key areas of water technology, waste management and resource conservation, as well as pollution monitoring and control.

In your first year, you will be introduced to basic concepts of environmental science, engineering and technology with modules such as Noise Monitoring & Control, Computer Aided Design and Hydraulics. In your second and third year, you will move on to in-depth modules in various aspects of environmental engineering and water technology, such as air and water quality monitoring & control.

In your final year, you will work on an environmental innovation & research project and go on a four-month internship. You can opt for hands-on learning opportunities at our Centre of Innovation in Environmental and Water Technology (COI-EWT) and work alongside research engineers and scientists on industry-based projects.

All EWT students will also have the chance to learn about sustainable environmental practices by participating in an enhanced study trip to destinations such as South Korea, Taiwan or Masdar City in Abu Dhabi.

With additional Workforce Skills Qualification (WSQ) Certificates in Noise Monitoring and Industrial Noise Control, you can look forward to better job prospects in the industry!

WHAT YOU WILL LEARN

YEAR 1
• Computer Aided Design
• Engineering Mathematics 1 & 2
• Environmental Health & Biology
• Environmental Microbiology & Biotechnology
• Global Environmental Issues
• Hydraulics
• Inorganic & Physical Chemistry
• Noise Monitoring & Control
• Organic & Biological Chemistry
• Career & Professional Preparation I
• Critical Thinking & Communication^
• Innovation Toolkit^
• Sports & Wellness^

YEAR 2
• ABC Waters Management
• Air Quality Monitoring & Control
• Civil Engineering Fundamentals
• Environmental Process Systems
• Engineering Mathematics 3
• Solid and Hazardous Waste Management
• Water & Environmental Chemistry
• Water & Marine Pollution
• Water Supply Technology & Design
• Workplace Safety & Health
• Career & Professional Preparation II
• Any two IS electives^

YEAR 3
• Environmental Management Systems
• Environmental Innovation & Research
• Industrial Wastewater & Membrane Technology
• Sustainable Environment Practices
• Water Reclamation Technology
• Internship
• World Issues: A Singapore Perspective^• Any one IS elective^
You will be well prepared for careers in government agencies, multinational corporations, university laboratories and research institutes. You can work as an environmental technologist, assistant engineer, research officer, water treatment specialist and many more. Additional WSQ certificates will also qualify you for jobs such as a Noise Monitoring Officer or Noise Control Officer.

CAREER

You may be granted up to one year’s exemption when you apply for environmental and civil engineering programmes at National University of Singapore and Nanyang Technological University.

EWT graduates can also be admitted to a wide range of degree programmes from business, architecture and engineering, to science and the arts at all the three local universities as well as the Singapore Institute of Technology and the Singapore University of Technology and Design. You may enjoy exemptions of up to two years when you apply for related degree programmes at the following overseas universities:

- Murdoch University (Australia)
- University of Adelaide (Australia)
- University of New South Wales (Australia)
- University of Queensland (Australia)
- University of Western Australia (Australia)
- University of Birmingham (UK)
- University of Manchester (UK)
- Newcastle University (UK)

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-C

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You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.
CANDIDATES WITH HEARING DEFICIENCY OR SEVERE VISION DEFICIENCY SHOULD NOT APPLY FOR THE COURSE.

FURTHER STUDIES

You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.
CANDIDATES WITH HEARING DEFICIENCY OR SEVERE VISION DEFICIENCY SHOULD NOT APPLY FOR THE COURSE.

CONTACT US

For the most up-to-date information on NP’s Diploma in Environmental & Water Technology, log on to www.np.edu.sg/ewt

“I see myself in the water industry in the near future, either playing a role in planning Singapore’s water needs for the next generation or bringing clean water to people in countries that lack access to this basic amenity.”

Jamie Goh Xue Min
Diploma in Environmental & Water Technology, Class of 2015
Jamie is a recipient of the National Environmental & Water Scholarship and is currently pursuing a degree in Civil Engineering at the University of Bath, UK. She also won the HSBC/NYAA Youth Environmental Award in 2014 for her contributions to environmental protection.